



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

09/934,549

08/23/2001

Lin Cheng

TS01-285

9167

54657

7590

12/07/2006

DUANE MORRIS LLP  
IP DEPARTMENT (TSMC)  
30 SOUTH 17TH STREET  
PHILADELPHIA, PA 19103-4196

EXAMINER

TRAN, HANH VAN

ART UNIT

PAPER NUMBER

3637

DATE MAILED: 12/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/934,549

Applicant(s)

CHENG, LIN

Examiner

Hanh V. Tran

Art Unit

3637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 21 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.

- 4) ☒ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

1. In response to a telephone conversation with applicant's representative on November 28, 2006 in which it was brought to the examiner that claims 1-8 are pending, and claim 8 was not addressed in the Office action mailed on 9/22/2006. Upon further consideration, a new Non-Final Office action is followed. Any inconvenience is regretted.
2. In view of applicant's remarks in the pre-brief request dated 5/2/2006, the After-Final Amendment filed on 9/21/2005 has been entered.

### ***Drawings***

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the limitations in claims 2, 4, and 7 of reticle and reticle box must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering

Art Unit: 3637

of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The recitation in the claims of Cartesian coordinates is vague and indefinite for failing to clearly define the metes and bounds of the claimed invention.

***Claim Rejections - 35 USC § 103***

6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

7. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Art Unit: 3637

8. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over USP 6,421,113 to Armentrout in view of USP 4,999,671 to Iizuka, USP 5,787,057 to Fan, USP 6,454,512 to Weiss, Germany 3917874 to Seibert, USP 4,293,075 to Veralrud, and USP 5,873,585 to Engelking.

Armentrout discloses a reticle housing comprising, such as shown in Fig 9, an upper portion, said upper portion comprising top, bottom, front, back, left and right surfaces, a door for access to the housing (col. 4, lines 18-20), component box support units 202 being mounted in a plane, adjacent rows of component support units being separated by a distance, the component support units being extended from the front surface to the back, cushioning units 202A, Fig 8A, being arranged over the surface of the component box support units 202, wherein the housing being constructed of an anti-Electro Static Discharge material. The differences being that Armentrout does not disclose the housing having a lower portion comprising wheels, a platform having a first and second surface, said wheels attached to the first surface of the platform, shock absorbers being mounted on the second surface of the platform, the bottom surface of the upper portion interface with the shock absorbers, upper portion dividers provided parallel to the left and right surfaces, the component support units slanting in a downward direction with respect to a plane of the platform, a set of two sliding doors mounted in the plane of the front surface, and a handle attached to the upper portion.

Iizuka teaches the idea of providing a reticle housing with wheels in order to facilitate transporting the housing. Fan teaches the idea of providing a transport cart with a lower portion comprising wheels, a platform having a first and second surface,

Art Unit: 3637

said wheels attached to the first surface of the platform in order to provide a sturdy transport cart. Weiss teaches the idea of having shock absorbers 32 being mounted on the second surface of a platform in order to prevent damage to the wafers due to jolting of the cart during transporting of the wafers. Seibert teaches the idea of providing a transport cart with upper portion dividers therein to provide multiple compartments in order to increase the number of component support units therein. Veralrud teaches the idea of having the component support units in a storage housing being slanted in a downward direction with respect to a plane of the horizontal bottom panel in order to prevent components placed on the support units from falling out. Engelking teaches the idea of providing a transport cart with sliding doors 110 in order to allow access to contents of the housing without having to pivot the door, and further providing a handle attached to the upper portion in order to easily manipulate the cart. Therefore, it would have been obvious to modify the structure of Armentrout by providing the reticle housing with wheels in order to facilitate transporting the housing, as taught by Iizuka, providing the transport cart with a lower portion comprising wheels, a platform having a first and second surface, said wheels attached to the first surface of the platform in order to provide a sturdy transport cart, as taught by Fan, providing shock absorbers being mounted on the second surface of the platform in order to prevent damage to the reticle due to jolting of the cart during transporting of the reticle, as taught by Weiss, providing the transport cart with upper portion dividers therein to provide multiple compartments in order to increase the number of component support units therein, as taught by Seibert, having the component support units being slanted in a downward direction with respect

Art Unit: 3637

to a plane of the platform in order to prevent components placed on the support units from falling out, as taught by Veralrud, and providing sliding doors in order to allow access to contents of the housing without having to pivot the door, and further providing a handle attached to the upper portion in order to easily manipulate the cart, as taught by Engelking, since each of the references teach alternate conventional component housing structure, used for the same intended purpose of housing components therein, thereby providing structure as claimed.

### ***Conclusion***

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Park and Pflueger et al, both show structures similar to various elements of applicant's disclosure.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh V. Tran whose telephone number is (571) 272-6868. The examiner can normally be reached on Monday-Thursday, and alternate Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lanna Mai can be reached on (571) 272-6867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3637

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



HVT

November 28, 2006

**Hanh V. Tran**  
**Art Unit 3637**